



DARPATech '99 Denver • June 7-10,1999





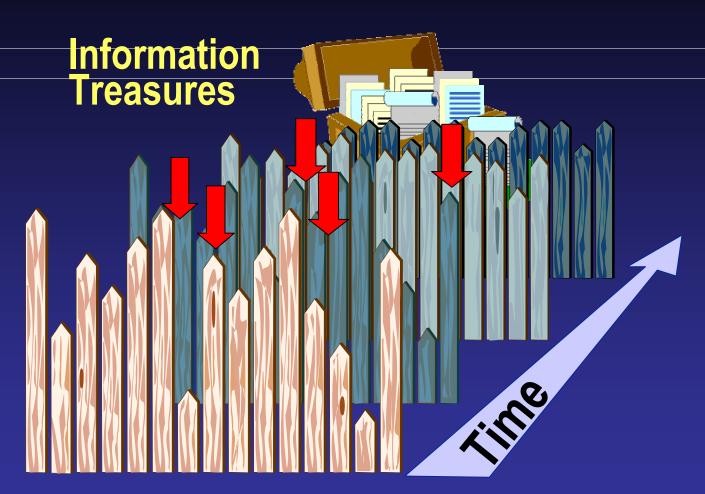
Strategic Cyber Defense

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Information Assurance



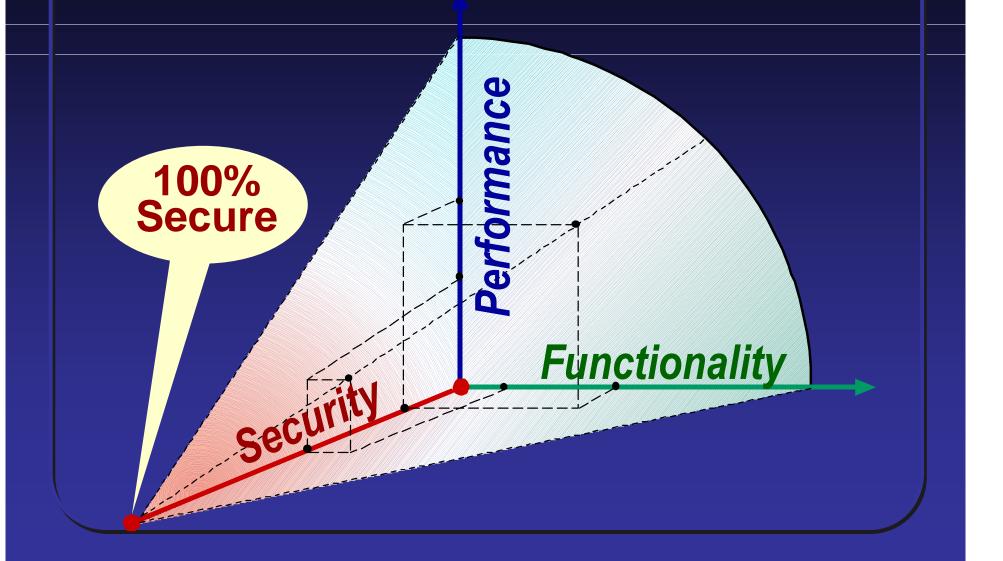


Risk-Balanced, Optimizing Strategy



Tradeoffs

ISO





Challenging Questions

ISO

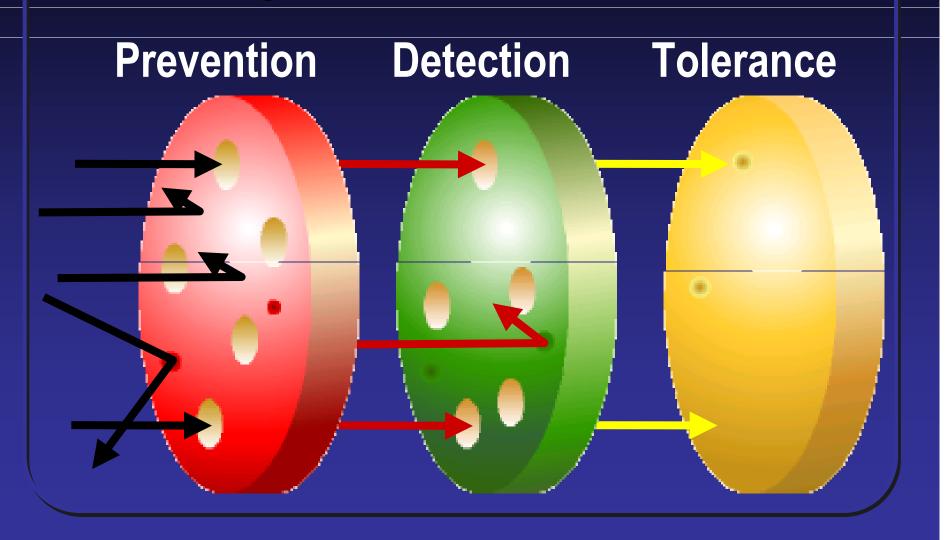
Commander's Attack Triage

- Am I under attack ?
- What is the nature of the attack?
- What is mission impact?
- When did attack start ?
- Who are the adversaries?
- What can I do about it?
- What is the long term solution?





Layered Protection





ISO

Game Theory





ISO

Strategic Cyber Defense

Cyber Defense Strategy:
Nat'l Level I&W and Response Integration

Cyber
Sensors &
Exploitation

Cyber State Awareness Cyber
Command &
Control

Observe

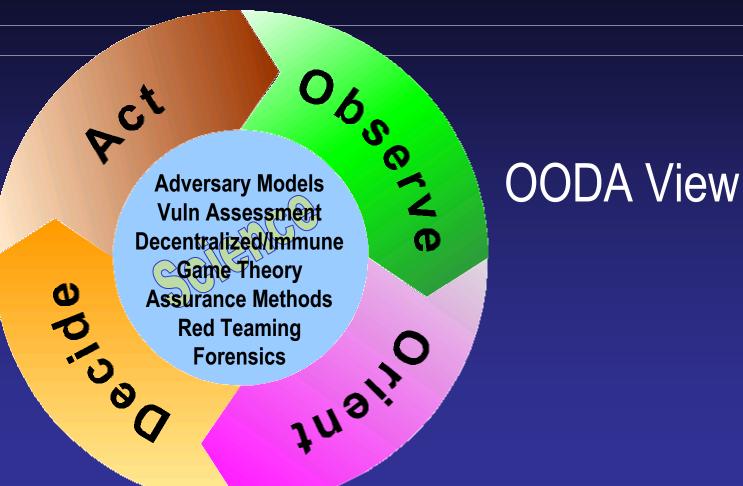
Orient

Decide

Act

Info Assurance Science & Engineering

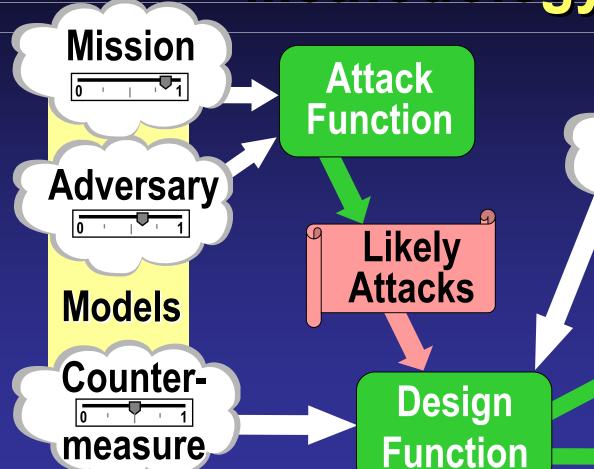






System Assurance Methodology

ISO



Risk Tolerance

> System Design New CM Rqmts

Trustworthy Systems from Untrustworthy Components

